

SPECIAL PROVISIONS

FRASIER POINT PIER AND PLAZA - SPECIAL PROVISIONS

General

The work under this contract for the construction of the Frasier Point pier and plaza construction project, Fond du Lac, Wisconsin shall be in accordance with the plans. This section contains an explanation of bid items contained in this bid proposal and supersedes the technical specifications if conflicts arise. The term "standard specification" in these special provisions refers to the "State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction", Edition of 2008. and shall be executed under the requirements of the General Specifications, Technical Specifications, Standard Specifications, and these special provisions.

Item 1 - Mobilization

This work shall include the cost of moving in equipment and supplies to the site, the establishment of necessary stockpiles and trailer and moving the same off site. The quantity of Mobilization shall be measured and paid for at the contract lump sum price.

Item 2 - Silt Fence

This work consists of furnishing, installing, and maintaining silt fence at the locations designated on the Plans and where directed by the Engineer, removing and disposing sediment deposits, and removing fence at the completion of the work.

Installation: Silt fence installation, maintenance and removal shall comply with the WDNR Conservation Practice Standards No. 1056 (attached after technical specifications).

Method of Measurement: Measurement will be the number of linear feet of silt fence acceptably installed and maintained. Measurement will be along base of fence, center to center of end posts, for each section of fence.

Basis of Payment: This work will be paid for at the contract unit price per linear foot. This price shall be full compensation for furnishing all materials, including delivering, installing, maintenance, removal and for all labor, equipment, tools and incidentals necessary to complete this item of work.

Item 3 – Silt Curtain

This work consists of furnishing, and installing, silt curtain at the locations designated on the Plans and where directed by the Engineer.

Installation: Turbidity barrier installation and maintenance shall comply with the WDNR Conservation Practice Standards No. 1070 (attached after technical specifications). Silt curtain must be maintained for the duration of the project and removed prior to final payment.

Method of Measurement: This item will be measured on a lump sum basis and will be inspected for effective control of sediment.

SPECIAL PROVISIONS

Basis of Payment: This work will be paid for at the contract unit price per each. This price shall be full compensation for furnishing all materials, including delivering, installing, maintenance, removal, and for all labor, equipment, tools and incidentals necessary to complete this item of work.

Item 4 – Track Mat

This work consists of furnishing, installing, and maintaining construction entrance at the locations designated on the Plans and where directed by the Engineer, scraping and removing sediment deposits or top dressing, and removing pad at the completion of the work.

Installation: Track mat installation, maintenance and removal shall comply with the WDNR Conservation Practice Standard No. 1057 (attached after technical specifications).

Method of Measurement: Measurement will be the number of construction entrances acceptably installed. Payment will be made at the contract unit price each.

Basis of Payment: This work will be paid for at the contract unit price per each. This price shall be full compensation for furnishing all materials, including delivering, installing, maintenance, removal, and for all labor, equipment, tools and incidentals necessary to complete this item of work.

Item 5 - Site Clearing

This work consists of removing and disposing of vegetation including removing stumps and roots and protection fencing for trees and site features as shown on the plans. This item includes furnishing all necessary materials and such as necessary or incidental there-to, to complete the item in the location and manner specified in the plans and section 311000 of the technical specifications

Method of Measurement: The quantity of site clearing shall be measured and paid for at the contract lump sum price.

Basis of Payment: Payment is full compensation for clearing and grubbing of all vegetation including cutting and disposing of trees, stumps, roots, logs, hauling, and for all labor, tools, equipment and incidentals necessary to complete this item of work. Tree protection and other protective fences are considered incidental to this bid item.

Item 6 – Demolition and Misc. Removal

This work consists of removing or abandoning miscellaneous structures including asphaltic surfaces, concrete pavement, curb and gutter, remnant slabs, miscellaneous structures and enclosures, and abandoning utilities as shown on the plans, in accordance with Section 311000 of the Technical Specifications and hereinafter provided.

Construction: Excavated soil must reused or disposed of in a legal manner. Any observed unnatural substances must be reported immediately to the Engineer.

SPECIAL PROVISIONS

Removing Asphaltic Surfaces: Retain existing aggregate base when removing asphalt under proposed parking lot.

Removing Concrete Pavement: This work item includes removing the existing concrete pavement and base material

Removing Curb and Gutter: This work item includes removing the existing concrete pavement. Retain aggregate base when removing curb and gutter under proposed parking lot. Aggregate base to be reused if possible in proposed plaza and parking areas.

Removing Remnant Slabs: This work item includes removing the existing concrete slab riprap and miscellaneous surfaces designated within the project limits.

Removing Miscellaneous Structures: This work includes all items to be removed to complete the project not listed individual in the other bid items such as signs and fencing etc..

Abandoning Utilities: This work item includes coordination with local utilities for removal and/or abandonment of existing utilities as noted on plan.

Method of Measurement: The City will measure the bid items as listed above by the unit acceptably completed.

Basis of Payment: The City will pay for the items listed above or shown on the plans as a contract lump sum item.

Payment is full compensation for removal of items including excavation, storage, disposal, hauling, backfilling, and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

Item 7 - Earthwork

This work consists of stripping and stockpiling of topsoil, excavating, filling, grading, compacting, preparation of sub-grade, disposal of excess materials, temporary drainage, berming, and related earthwork for the project. Work shall be performed in accordance with Section 31200 of the technical specifications. The aggregate base is not included in this bid item but is included in the individual pavement bid items.

Construction: Excavated soil must be removed and disposed of in a legal manner if not reused on the site per plans.

Method of Measurement: The quantity of site grading shall be measured and paid for at the contract lump sum price.

Basis of Payment: This work will be paid for at the contract unit lump sum price for site grading. Payment is full compensation for furnishing and placing all materials, excavation, furnishing borrow, disposal, hauling, placing, grading; and for furnishing all

SPECIAL PROVISIONS

labor, tools, equipment, and incidentals necessary to complete the contract work. The cost for the aggregate base is covered under the pavement bid items.

Item 8- Concrete Pavement, Item 9-Accessible Curb Ramp, Item 10-Thickened Edge Walk

This work consists of furnishing and installing concrete pavement and curbing including concrete walks, accessible curb ramps, thickened edge walk, and curb and gutters, including forming, reinforcing, aggregate base, and concrete and finishing at locations designated on the Plans in accordance with Sections 312000 and 321313 of the technical specifications. Note that aggregate base is included as part of these bid items.

Construction: Install detachable warning field for accessible curb ramps according to manufacturer's recommendations.

Standard Finish Concrete Pavement: Typical City of Fond du Lac broom finish, running in an NE to SW plan direction.

Rough Finish Concrete Pavement: Rough broom finish longitudinally applied along concrete header band. Finish should be of a depth and degree as to inform people the edge of the concrete is adjacent. Provide 2'x2' sample of rough broom finish.

Method of Measurement: Measurement for each bid item is listed below by the unit acceptably completed.

Basis of Payment: This work will be paid for at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
8	Concrete Pavement	SF
9	Accessible Curb Ramp	EA
10	Thickened Edge Walk	LF

Payment is full compensation for furnishing all materials, including delivering, forming, installing, reinforcing, aggregate base, concrete, placing, curb ramp detectable warning field, finishing, jointing and for all labor, equipment, tools and incidentals necessary to complete this item of work.

Item 11 - Concrete Light Bases

This work consists of installation of the concrete light bases including conduit, reinforcing, grounding, forming and concrete as designated on the Plans and in accordance with local and state electrical codes and Section 033053 of the technical specifications.

Method of Measurement: This item shall be measured and paid for at the contract price of cubic yard of concrete base acceptably complete

Basis of Payment: This work will be paid for at the contract unit price under the following bid item:

SPECIAL PROVISIONS

Item 12 - Asphalt Pavement

This work consists of furnishing and installing asphalt pavement for parking lot and drive. This bid item includes, aggregate base, asphalt and finishing at locations designated on the Plans in accordance with Sections 312000 and 321216 of the technical specifications. Note that aggregate base is included as part of these bid items.

Method of Measurement: Measurement will be the number of square yards of asphalt pavement acceptably complete.

Basis of Payment: This work will be paid for at the contract unit price per square yard. This price shall be full compensation for furnishing all materials, including delivering, forming, installing, aggregate base, asphalt, placing, finishing, and for all labor, equipment, tools and incidentals necessary to complete this item of work.

Item 13 – Rip Rap Stone

This section describes furnishing and placing riprap as identified on the Plans and in accordance with the following specifications.

Materials: Geotextile fabric Type HR (Conform to WisDOT specification 645.3.7) or approved equal

Furnish durable field or quarry stone that is sound, hard, dense, resistant to the action of air and water and free of seams, cracks, or other structural defects. Use stone pieces with a length and width no more than twice the thickness. Do not place material without the engineer's approval of the stone quality, size, and shape.

Average dimensions of the stone pieces shall be derived by averaging measurements of the thickness, width, and length. Furnish stones to the size requirements for the riprap grade listed below (per WisDOT 2010 Standard Specifications). Size requirements are expressed as the percent of the gross in-place riprap volume occupied by stones within average dimension size ranges for each riprap grade as follows:

Heavy Riprap (inches):	In-Place Riprap Volume Occupied by Stones
>25	0%
18-20	10-14%
14-18	15-21%
6.5-14	20-28%
<6.5	5-7%
<1	2% or less

The contractor may NOT substitute waste concrete slabs for stone.

Construction: Prepare bed for the riprap by excavating, shaping the slopes, and constructing the toe for the riprap installation. Install geotextile. After placing the riprap, restore the surface of adjacent work and legally dispose of surplus material.

SPECIAL PROVISIONS

The contractor may place heavy riprap by any mechanical means that produce a completed job within reasonable tolerances of the typical section the plans show. Limit handwork to the amount necessary to fill large voids or to correct segregated areas. Place riprap over type HR geotextile fabric.

Method of Measurement: Measurement for this bid item will be by square yards acceptably completed.

Basis of Payment: This work will be paid for at the contract square yard price. Payment for all bid items under this item are full compensation for preparing the bed, providing and placing riprap, restoring adjacent work, and disposing of surplus material. Excavation in excess of the approximate volume of earth occupied by the riprap will be paid under the Earthwork bid item.

Item 14 – Block Stones

This section describes furnishing and placing block stones and aggregate base as identified on the Plans and in accordance with the following specifications.

Materials: Furnish durable field or quarry block stone that is sound, hard, dense, resistant to the action of air and water and free of seams, cracks, or other structural defects. Use block stone pieces averaging a 4'-0" length, 24-30" width and minimum 8" thickness as identified in the plans. Average dimensions of the stone pieces shall be derived by averaging measurements of the thickness, width, and length.

The contractor may NOT substitute waste concrete slabs for block stone.

Construction: Prepare bed for the block stones by excavating, shaping the slopes, and constructing the base stone for installation. Install aggregate base material and gradations that have performed satisfactorily in previous installations. After placing the block stone, restore the surface of adjacent work and legally dispose of surplus material.

The contractor may place the block stones by any mechanical means that produce a completed job within reasonable tolerances of the typical section the plans show.

Method of Measurement: Measurement for this bid item will be per square yard of material acceptably completed.

Basis of Payment: This work will be paid for at the contract price per square yard. Payment for all bid items under this item are full compensation for preparing the base, providing and place block stone, restoring adjacent work, and disposing of surplus material. Excavation in excess of the approximate volume of earth occupied by the riprap will be paid under the Earthwork bid item.

SPECIAL PROVISIONS

Item 15 – Pier

The Floating Pier shall meet the Wisconsin DNR Shore Based Fishing Facilities Planning Guidelines Nov 2008 including the flotation requirement for a 50 P.S.I. live load applied to the full area of the deck surface while maintaining at least 6” freeboard.

The design, construction and finished product shall conform to the following standards as applicable. Plan drawings are for reference only, specifications listed here shall govern.

- 1) State of Wisconsin Building Code
- 2) International Building Code
- 3) American institute of Steel Construction “Specifications for the Design, Fabrication, and Erection of Steel for Buildings”. “Code of Standard Practices for Steel Buildings and Bridges”.
- 4) American Welding Society Structural Welding codes for Steel and Aluminum.
- 5) American Society of Civil Engineers (ASCE) Report No. 50, published 1994 or later. Planning and Design Guidelines for Small Craft Harbors
- 6) The Americans with Disabilities Act and Architectural Barriers Act Accessibility Guidelines July 23, 2004.
- 7) United States Access Board Accessibility Guidelines (ADAAG) Fishing Piers and Platforms.
- 8) Department of Justice standards for accessible design 28CFR part 36, APP. A July 1, 1994 Edition. 2010 ADA Standards September 15, 2010
- 9) WI DNR Shore Based Fishing Facilities Planning Guidelines (latest version).
- 10) SOBA (States Organization for Boating Access Guidelines).
- 11) Applicable ASTM (American Society of Testing Materials) standards.
- 12) AWWA (American Wood Preservers Assn.) standards 2007
- 13) Southern Pine Council Standards for marine construction.
- 14) Aluminum Association Standards and data

Manufacturers:

1. Merrill Equipment Co./Alan Dock
2209 Sturdevant St.
Merrill, Wisconsin 54452
(p) 715-536-3541 (f) 715-539-0844

2. Port A Pier
2212 South 35th Street
Manitowoc, WI 54220
(p) 920-682-4908 (f) 920-682-8754

3. Approved Equal

Materials:

Railings Shall Meet the Following Specifications:

International Building Code

SPECIAL PROVISIONS

2003.2.12 Guards

1003.2.12.1 Height

1003.2.12.2 Opening

As modified by ADAAG – Americans with disability guidelines by U.S. Access Board 1005 Fishing Piers and Platforms, the U.S. Department of Justice 2010 ADA standards for and modified by the Wisconsin DNR, Bureau of Facilities and Land “Barrier Free” Fishing Pier Specifications.

SOBA (States Organization for Boating Access guidelines)

Walkway Railings Shall Meet the Following Specifications:

- Bottom edge protection
- 4” maximum opening below 34”
- 34” round handrail
- 8” maximum opening above 34”
- 42” maximum height
- Top of railing is wood or plastic as recommended by Wisconsin DNR
- Minimum load 200# per lineal foot

Fishing Railings/Stations Shall Meet the Following Specifications:

Provides seating positions on each side of 9” fish opening, so 2 people can fish at each opening instead of 1 as illustrated in the SOBA and access board literature.

The top railing includes fishing rod holders and a flat area for food or equipment. Under the top railing between the seating areas is a shelf for tackle box or bait within easy reach for a person in a wheelchair. Shelves and rod holder/arm rest are wood or plastic to match railings.

- 32” height, front edge of rod holder to deck
- 4” maximum opening between spindles in railing below rod holder, between the
- 9” fish opening and above the 9” wheelchair opening
- 9” opening between bottom of railing and deck to accommodate wheelchair foot rests. WI DNR recommendation
- 2” wheelchair stop at edge of dock

Decking Shall Meet the Following Specifications:

2”x6” Southern Yellow pine, or approved equal, treated per AWP standards. It shall meet the #1 Southern Pine Council requirements after installation. The deck boards will be screwed to treated wood stringers for easy future replacement. The decking will be perpendicular to the direction of travel. The decking shall be installed so wind and rain will help the surface clean. The deck boards shall be supported on 16” centers or less.

Frame Components Shall Meet the Following Specifications:

Structural aluminum extrusions are of an appropriate temper for its use. The design load requirements meet the applicable standards including the Wisconsin and Federal guidelines for this use.

Floatations Shall Meet the Following Specifications:

SPECIAL PROVISIONS

The expanded polystyrene foam floatation shall meet ASTM C578 Type VIII properties. Flame spread is tested in accordance with ASTM E84/UL 723.

- Minimum Density 1.15# cubic foot
- Compression Strength 13/PSI
- Flexural Strength 30/PSI
- Water Vapor Permeance 3.5
- Water Absorption 3.0

The beads shall be firmly adhered together without voids between the beads to reduce future water absorption and loss if protector is damaged.

The expanded polystyrene is protected from environmental issues by ¼" (.250") minimum thickness recycled high density polyethylene ASTM D5203.

The protector will be vented under water to relieve pressure changes from temperature and barometric pressure and allow any condensation to drain away to prevent water logged floatation.

The entire floatation system is securely attached to the aluminum frame. The floatation surface area is a minimum of 90% of the deck area for minimum loss of free board in use.

Design Requirements:

A. Vertical Loads

- 1) Dead loads shall consist of the entire weight of the floating structure, including the bridge and walkway ends, and other accessories and appurtenances.
- 2) Deck surface and structural frame live load shall be equal to 50 P.S.F. applies to the full surface area of the deck.
- 3) Substructure and connections shall be designed (Ultimate Strength) to support full live load.
- 4) Gangways and walkways shall be designed to support full live load as specified. Bridge handrails shall be designed and constructed to withstand a 200 pound load applied in any direction and at any point without permanent deflection.
- 5) The dead load and live load of the gangway shall be supported on the dock so the fishing dock remains substantially level during variable gangway loads and wheel chair transitions from the gangway.
- 6) *The gangway shall not be hinged to the side of the dock.*
- 7) Flotation shall be designed to support the dead load plus not less than a 50 P.S.F. live load applied to the full area of the deck surface while maintaining at least 6" freeboard.

B. Horizontal Loads

SPECIAL PROVISIONS

- 1) A uniform horizontal wind loading from any direction shall be calculated as 20 P.S.F on all projected surfaces and will transfer loading to “resisting” elements i.e. pilings, shore braces, anchoring systems, etc.

C. Special Loading.

- 1) The system shall be designed to resist torsional forces to the extent that there shall be no more than 2” freeboard variation per as measured in any direction and under any combination of specified vertical and horizontal load conditions except wave action loads.
- 2) The floating structures shall be designed to resist a 400 pound vertical point load at any point on any finger pier or the main pier without violation of the freeboard or torsion design requirement. See current ADA/Access Board specification.
- 3) The design criteria meet the industry specifications for commercial marinas, ASCE #50, and WI DNR and DOT specifications. At 50 P.S.F. live load and US Coast Guard Standard of 190# weight per person, the 6’x30’ Tee will support 47 adults. The freeboard loss per person is approximately ¼” to ½” wherever they stand on the dock.

Shop Drawings:

Shop drawings shall be provided that are drawn to scale and completely dimensioned. Drawings shall indicate the relevant sizes of all structural members and connectors, type of material, finish, thickness, gauge, and other pertinent information for complete evaluation of the system.

Construction: Install in accordance with the manufacturer’s recommendations.

Method of Measurement: This item shall be measured and paid for at the contract lump sum price.

Basis of Payment: This work will be paid for at the contract lump sum price. Payment is full compensation for furnishing and installing all necessary materials, including pier, railings, supports, stations, floatations, decking, and necessary hardware and all labor, tools, and equipment and incidentals necessary to complete this item of work.

Item 16 – Pipe Railing

This work consists of furnishing and installing the pipe railing and all hardware necessary for installation in the location and manner specified in the plans.

Material: Non-welded, factory assembled, aluminum railing, consisting of a 1-1/2” O.D. 6063 T6 or T4 aluminum alloy. Railings and all components shall be supplied with a ~~Dark Bronze baked enamel~~ Satin Anodized finish. Railings provided by The Wagner Companies, 1-888-243-6914 or approved equal.

- A. Structural Performance: Provide railings capable of withstanding the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:

SPECIAL PROVISIONS

1. Handrails:
 - a. Uniform load of 50 lbf/ ft. (0.73 kN/m) applied in any direction.
 - b. Concentrated load of 200 lbf (0.89 kN) applied in any direction.
 - c. Uniform and concentrated loads need not be assumed to act concurrently.

2. Top Rails of Guards:
 - a. Uniform load of [50 lbf/ ft. (0.73 kN/m) applied in any direction
 - b. Concentrated load of 200 lbf (0.89 kN) applied in any direction.
 - c. Uniform and concentrated loads need not be assumed to act concurrently.

3. Infill of Guards:
 - a. Concentrated load of 50 lbf (0.22 kN) applied horizontally on an area of 1 sq. ft. (0.093 sq. m).
 - b. Uniform load of 25 lbf/sq. ft. (1.2 kN/sq. m) applied horizontally.
 - c. Infill load and other loads need not be assumed to act concurrently.

Provide shop drawings and color samples for approval

Construction: Install factory assembled components as detailed in the plans and in accordance with the manufacturer's recommendations.

Method of Measurement: This item shall be measured and paid for at the contract price for each linear foot of railing acceptably complete.

Basis of Payment: This work will be paid for at the contract unit price per each linear foot. Payment is full compensation for furnishing and installing all necessary materials, including the pipe railing and necessary hardware and all labor, tools, and equipment and incidentals necessary to complete this item of work.

Item 17 – Flagpole Mounting & Base

This work consists of installing the flagpole and base and all hardware necessary for installation in the location and manner specified in the plans.

Material: Flagpole to be provided by owner.

Performance: Flagpole base per manufacturer recommendations. Base flagpole design on maximum standard size nylon flag suitable for use with pole or flag size indicated, whichever is greater. Provide flagpole base shop drawings for approval showing length, width, and diameter of base detail and how pole integrates.

Construction: Flagpole provided by owner. Flagpole base to be installed per manufacturer recommendations, taking into consideration in situ soil conditions and wind loading.

SPECIAL PROVISIONS

Method of Measurement: This item shall be measured and paid for at the contract lump sum price acceptably complete.

Basis of Payment: This work will be paid for at the contract lump sum price. Payment is full compensation for installing all necessary materials, including pole and necessary hardware and all labor, tools, and equipment and incidentals necessary to complete this item of work.

Item 18 – Wheel Stops

This work consists of the installation of the wheel stops as located on the Plans and in accordance Section 321216 of the technical specifications.

Material: 8”x8”x72”L pressure treated wooden timber. NOTE: railroad ties shall not be accepted due to chemical preservatives and proximity to lake.

Construction: Install wooden timbers as detailed in the plans utilizing a minimum of 3, equally spaced, 18” rebar spikes to mount timber to asphalt. Recess head of spike beneath top of wheel stop a minimum of 1”.

Method of Measurement: This item shall be measured and paid for at the contract price for each ~~wheel stop~~ bench acceptably complete.

Basis of Payment: This work will be paid for at the contract unit price per each. Payment is full compensation for furnishing and installing all necessary materials, including wooden timbers and necessary hardware and all labor, tools, and equipment and incidentals necessary to complete this item of work.

Item 19 – Boulder Placement

This work consists of reusing on-site boulders and installing them as indicated in the Plans.

Construction: During demolition, relocate existing boulders and store on site. Place reused boulders at depths indicated in Plans. Install stone mulch per Item #23.

Method of Measurement: This item shall be measured and paid for at the contract price of lump sum for designated area acceptably complete.

Basis of Payment: This work will be paid for at the contract unit price per lump sum. This price shall be full compensation for relocating and placing all boulders, including excavation, hauling, placing, and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

Item 20 – Stone Mulch

This work consists of supply and installation of stone mulch and filter fabric base as indicated on the Plans.

SPECIAL PROVISIONS

Material: Stone mulch shall be dark grey in color, 3-4” dimensional trap rock. Geotextile shall have the following characteristics:

Min. grab tensile strength	ASTM D 4632	110 lb.
Min. puncture strength	ASTM D 4833	40 lb.
Min. apparent breaking elongation	ASTM D 4632	30%
Min. apparent opening size	ASTM D 4751	300 um
Min. permittivity	ASTM D 4491	.70s (-1)

Construction: After setting boulders to required depths apply filter fabric membrane at base of bed. Install stone mulch per Plans.

Method of Measurement: This item shall be measured and paid for at the contract price of cubic yard for designated area acceptably complete.

Basis of Payment: This work will be paid for at the contract unit price per cubic yard. This price shall be full compensation for furnishing stone mulch and filter fabric and placing all materials, including excavation, disposal, hauling, placing, grading; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

Item 21 - Planting Soil Mix

This work consists of furnishing and placing the soil for the landscape beds in the location and manner specified in the plans and section 329300 of the technical specifications.

Construction: Install per Section 329300 of the technical specifications even though plant material may not be installed at same time as soil placement.

Method of Measurement: Measurement will be the number of cubic yards of planting soil mix acceptably complete.

Basis of Payment: This work will be paid for at the contract unit price per cubic yard. This price shall be full compensation for furnishing and placing all materials, including excavation, disposal, hauling, placing, grading; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

Items 22 - Engineered Soil

This work consists of furnishing and installing an engineered soil that meets NR 151.12 requirements per the WisDNR. Placement shall be in accordance with the Plans.

Construction: The soil mixture shall be uniform, free of stones, stumps, roots, or other similar objects larger than two inches. On-site soil mixing or placement is not allowed if soil is saturated with water within 48 hours of placement. The soil shall be covered and stored to prevent wetting or saturation. Placement shall be in 6 inch lifts. Area shall not be driven on or compacted unnecessarily from time of placement to finishing of project.

SPECIAL PROVISIONS

Method of Measurement: This item shall be measured and paid for at the contract price for cubic yards acceptably complete.

Basis of Payment: This work will be paid for at the contract unit price per cubic yard. Payment is full compensation for providing, transporting, handling, storing, placing, excavating areas, and backfilling; for disposing of all excess and waste materials; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

Item 23 – Seeded Lawn

This work consists of furnishing and installing lawn including seeding, topsoil, mulch, and maintenance in the manner specified in the plans and in accordance with section 329200 of the technical specifications.

Construction: Per technical specifications

Method of Measurement: This item shall be measured and paid for at the contract price for square yards of lawn acceptably complete.

Basis of Payment: This work will be paid for at the contract unit price per square yard. Payment is full compensation for providing, transporting, handling, storing, placing, and renovating disturbed areas; for providing and applying all required topsoil, fertilizer, mulch, water, herbicides, for disposing of all excess and waste materials; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

Item 24 – Sidewalk Flume

This work consists of the installation of the metal sidewalk flume, adjacent concrete, and necessary attachment hardware as located on the Plans.

Material: ¼” diagonal cast metal or aluminum grate material with stainless steel anchors, or approved equal.

Construction: Install plate material in accordance with the Plans and secure as necessary with stainless steel fasteners.

Method of Measurement: This item shall be measured and paid for at the contract lump sum price acceptably complete.

Basis of Payment: This work will be paid for at the contract lump sum price. Payment is full compensation for furnishing and installing all necessary materials, including grating/plating and necessary hardware and all labor, tools, and equipment and incidentals necessary to complete this item of work.

Item 25 – Light Type A

This work consists of the design and installation of the electrical system with lights including system design, electrical system controls, conduit, wiring, handholds, meter

SPECIAL PROVISIONS

base, pedestal, utility boxes, and light fixtures, lamps and poles as located on the Plans and listed below in accordance with local and state electrical codes and Section 265600 of the technical specifications.

Materials:

Light Type A (pedestrian) Park Ridge series manufactured by Sternberg Lighting with the following specifications:

Luminaire: Park Ridge Series 1910A/5RLM18

Bracket: Post Arm CSA4B

Pole: 3214T4 Finish-Swedish Iron

Color: Swedish Iron for Pole and Luminaire

Lamp: 100HPS 120V

Locking Duplex receptacle mounted low

Provide shop drawings for approval

Construction: Excavated soil must be removed and disposed of off site

Method of Measurement: This item shall be measured and paid for at the contract price for each Light – Type A acceptably complete.

Basis of Payment: This work will be paid for at the contract unit price per each type of light. This price shall be full compensation for system design and furnishing all materials, including delivery, installing, placing, finishing, and for all labor, equipment, tools and incidentals necessary to complete this item of work.

ALTERNATES -----

Alt Item 01 - Pavement Markings

This work consists of installing pavement markings as designated on the Plans in accordance with Section 321216 of the technical specifications.

Method of Measurement: Measurement will be the number of linear feet of pavement marking acceptably complete.

Basis of Payment: This work will be paid for at the contract unit price per linear foot. This price shall be full compensation for furnishing all materials, including delivering, installing, epoxy, and for all labor, equipment, tools and incidentals necessary to complete this item of work.

Alt Item 02 - Signs

This work consists of furnishing and installing regulatory signage including pole, post anchor system, and all hardware necessary for installation in the location and manner

SPECIAL PROVISIONS

specified in the plans and in accordance section 033053 of the technical specifications and with local and state codes.

Material:

Sign Blanks: Use aluminum alloy 5052-H38 complying with ASTM B 209. Use blanks conforming to the Aluminum Association, Inc., requirements for commercial flatness and uniformity of thickness. Perform all shearing, cutting, and punching before coating and applying surface material. Sign shall have be 0.080 inch thick sheet.

Pole: 10' Galvanized Steel Square Pole with 2" outside diameter and 0.065 wall thickness.

Pole Cap: Aluminum domed top post cap

Mount Hardware: Aluminum, vandal-proof hardware designed for mounting signs

Post Anchor System: V-Loc model# 23-VR2 or approved equal.

Construction:

Install in accordance with the manufacturer's recommendations

Method of Measurement: This item shall be measured and paid for at the contract price for each acceptably complete.

Basis of Payment: This work will be paid for at the contract unit price per each. Payment is full compensation for furnishing all necessary materials, including sign, pole, concrete base, and necessary hardware and all labor, tools, and equipment and incidentals necessary to complete this item of work.

Alt Item 03 – Tree Stabilization

This work consists of installing tree staking as designated on the Plans and in accordance with Section 329300 of the technical specifications.

Material: 2" x 2" hardwood stakes, length per Plans. Proprietary staking and guying devices listed per the technical specifications.

Construction: Install wooden timbers as detailed in the plans, 3 per tree or per manufacturer's recommendations.

Method of Measurement: This item shall be measured and paid for at the contract price for each tree staked acceptably complete.

SPECIAL PROVISIONS

Basis of Payment: This work will be paid for at the contract unit price per each. Payment is full compensation for furnishing and installing all necessary materials, including stakes and necessary hardware and all labor, tools, and equipment and incidentals necessary to complete this item of work.

Alt Item 04 – Bench Seating

This work consists of furnishing and installing the benches and all hardware necessary for installation in the location and manner specified in the plans.

Material: 70” all steel ‘flip back’ bench as indicated on the Plan. As manufactured by Maglin Site Furniture 1-800-716-5506, Inc. Model # MLB400W, metal color to be Bronze Autumn. Bench seat and back to be recycled plastic, Sand color.

Construction: Install pre-assembled bench per detailed plans and in accordance with the manufacturer’s recommendations.

Method of Measurement: This item shall be measured and paid for at the contract price for each bench acceptably complete.

Basis of Payment: This work will be paid for at the contract unit price per each. Payment is full compensation for furnishing and installing all necessary materials, including bench and necessary hardware and all labor, tools, and equipment and incidentals necessary to complete this item of work.

Alt Item 05 – Light Type B

This work consists of the design and installation of the electrical system with lights including system design, electrical system controls, conduit, wiring, handholds, meter base, pedestal, utility boxes, and light fixtures, lamps and poles as located on the Plans and listed below in accordance with local and state electrical codes and Section 265600 of the technical specifications.

Materials:

Light Type B (bollard) BDAR5 series manufactured by US Architectural Lighting with the following specifications:

Model #: BDAR5-AR(reflector optics)-50(wattage)-MH(metal halide)-MT(multi-tap voltage)-Ground Mount- -30” Height

Color: RAL-7004-T (Grey-Textured)

Mounting: Per Plans

Provide shop drawings for approval

Construction: Excavated soil must be removed and disposed of off site

Method of Measurement: This item shall be measured and paid for at the contract price for each Light – Type B acceptably complete.

SPECIAL PROVISIONS

Basis of Payment: This work will be paid for at the contract unit price per each type of light. This price shall be full compensation for system design and furnishing all materials, including delivery, installing, placing, finishing, and for all labor, equipment, tools and incidentals necessary to complete this item of work.

Alt Items 06-13: Plants

This work consists of furnishing and installing plants including mulch, and maintenance in the manner specified in the plans and in accordance with section 329300 of the technical specifications.

Construction: Backfill for plants shall be Planting Soil Mix or Engineered Soil as identified and in accordance with the technical specifications.

Method of Measurement: This item shall be measured and paid for at the contract price for each type of plant acceptably complete.

Basis of Payment: This work will be paid for at the contract unit price per each type of plant. Payment is full compensation for providing, transporting, handling, storing, placing, and replacing plant materials; for excavating all plant holes, salvaging topsoil, mixing, and backfilling, edging; for providing and applying all required fertilizer, mulch, water, herbicides, for disposing of all excess and waste materials; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.